

Oven & Furnace



Satisfaction with the requirements of European regulations and guidelines.



Intuitive operation with Color Touch display.



More precise temperature control through temperature calibration.



Warning alarm in case of deviation of temperature control.



PC communication via RS-232 / RS-485 / USB port.



Real-time equipment monitoring and control system using mobile app.



Digital Input / Output for external device interlock control.



Electronic over temperature protection system.



Possible to set end time or start time of device operation.



It memorizes the state of power failure and operates automatically when power is restored.



Registered safety patent based on JEIO TECH's proprietary technology.



More precise temperature control through 3-point temperature calibration.



Over temperature protection function.



Control of temperature / humidity / rpm / time, etc. through dedicated program.



2 year warranty Free A/S.

General Application

Forced convection oven: Aging and curing, agricultural genetics, degradation/digestion of proteins and starches, universal /general drying/heating, QC/batch testing, stability testing, sterilization.

Natural convection oven : Annealing, plant tissue drying/ Drying of plant tissue, drug metabolism, purified chemical precipitation/ Fine chemical precipitation, universal /general drying/heating, serum protein analysis, sterilization, etc.

Vacuum oven: Agricultural genetics, annealing, desiccating, outgassing, vacuum embedding, volatile resin, polymer test, etc.

Furnace: New material development, superconducting material heating, ceramic sintering, heat treatment reaction, melting of glass and metal, casting moulding, organic matter weight analysis and coal ash measurement, heat resistance test, etc.

	Description	Temp. Range (°C/°F)	Max. Temp. Fluctuation (±°C/°F)	Volume (L / cu ft)	Model	Page
Forced Convection Ovens	Program <ul style="list-style-type: none"> • 10 programs & 10 steps • Easy operation with color touch 	Amb. +10 to 250 / Amb. +18 to 482	±0.5/ 0.9 at 100 °C	60, 102, 151 / 2.1, 3.6, 5.3	OF-P	64
	General <ul style="list-style-type: none"> • Most representative forced convection type • Includes safety device as standard 	Amb. +10 to 250 / Amb. +18 to 482	±0.5 / 0.9 at 100 °C	60, 102, 151 / 2.1, 3.6, 5.3	OF-G	66
	Large <ul style="list-style-type: none"> • Large capacity standard type oven • Uniform and precise temperature control 	Amb. +15 to 200 / Amb. +27 to 392 Amb. +15 to 300 / Amb. +27 to 300	±0.2 / 0.36 at 100 °C	314, 450, 760 / 11.1, 15.9, 26.8	OF3 OF3-H	68
	Economy <ul style="list-style-type: none"> • Stable product that is faithful to the basics • Includes safety device as standard 	Amb. +10 to 220 / Amb. +18 to 428	±0.4 / 0.72 at 100 °C	52, 100, 150 / 1.8, 3.5, 5.3	OF-E	70
	Multi <ul style="list-style-type: none"> • Independent temperature control by chamber • 2-in-1, 4-in-1 models 	Amb. +10 to 200 / Amb. +18 to 392	±0.5 / 0.9 at 100 °C	120 / 4.2 (60/2.1 x 2 Chambers) 240 / 8.5 (60/2.1 x 4 Chambers)	OF-2C OF-4C	71
Natural Convection Ovens	General <ul style="list-style-type: none"> • Most representative natural convection type • Suitable for drying powder samples 	Amb. +10 to 250 / Amb. +18 to 482	±0.3 / 0.54 at 100 °C	52, 91, 135 / 1.8, 3.2, 4.8	ON-G	72
	Economy <ul style="list-style-type: none"> • Stable product that is faithful to the basics • Includes safety device as standard 	Amb. +15 to 220 / Amb. +27 to 428	±0.3 / 0.54 at 100 °C	52, 100, 150 / 1.8, 3.5, 5.3	ON-E	73
Vacuum Oven	Vacuum <ul style="list-style-type: none"> • Product optimized for vacuum drying • Structure separating vacuum/release line 	Amb. +15 to 250 / Amb. +27 to 482	±0.1 / 0.18 at 100 °C	28, 65 / 1.0, 2.3	OV4	74
Furnace	Furnace <ul style="list-style-type: none"> • High temperature test up to 1500°C • Convenient program control 	Max. 1100 / 2012 Max. 1500 / 2732	±1.5 / 2.7 at 1500°C	3.0, 4.5, 12.0 / 0.1, 0.2, 0.4	MF2-G MF2-H	76

※ The contents of the above and the contents of this catalog may differ depending on the specific model and conditions of use. For the information about the features and specifications that applying to each models, please check the information on the corresponding page of each models.

Natural Convection Oven

General type



Specially designed for applications requiring gentle airflow

Structural Functional Features

- Gravity flow convection for uniform sample heating.
 - Ideal for all sterilization, drying, and high-temperature storage tasks that do not require high drying performance or airflow.
- Easy to open and close the door, soft handle minimizes shock to the sample.
- Two vent holes for gas discharge at the top.
- Stainless steel interior and shelves are excellent in terms of corrosion resistance and clean maintenance.
- Rounded inner chamber corners for easy cleaning and optimal airflow.

Use Convenience Features

- Calibration function minimizes temperature difference.
- Optimized control with temperature auto-tuning.
- Save and use 3 frequently used temperatures.
- Wait On/Off timer. (up to 99 hours 59 minutes)
- Microprocessor PID method for precise temperature control.
- Automatic restart of operation when power is restored after sudden power failure.

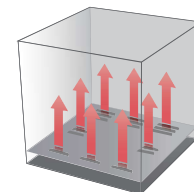
Outstanding Safety

- Top-rated overheating protection system. (registration 10-0397583)
- Over temperature limit function.
- Safe product surface, even when operated at maximum temperature.
- Triple-toughened viewing window for safe and convenient observation even at high temperatures. (only ON-GW models)
- Malfunction prevented by controller lock function.
- Self-diagnostics function to check abnormal condition of temperature sensor.



ON-22GW

with Wire Shelves 2ea (standard)

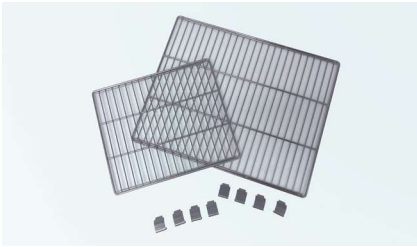


Specification

Model	Solid Door (without window)	ON-02G	ON-12G	ON-22G
	Window door	ON-02GW	ON-12GW	ON-22GW
Chamber volume (L / cu ft)		52 / 1.8	91 / 3.2	135 / 4.8
Temperature	Range (°C / °F)	Amb. +15 to 250 / Amb. +27 to 482	Amb. +15 to 250 / Amb. +27 to 482	Amb. +15 to 250 / Amb. +27 to 482
	Fluctuation at 100°C (±°C / °F)	0.3 / 0.54	0.3 / 0.54	0.3 / 0.54
	Variation at 100°C (±°C / °F)	5.9 / 10.62	7.5 / 13.5	6.9 / 12.42
	Heating time to 100°C (min.)	13	12	12
Dimension	Recovery time at 100°C (min.)	5	4	2
	Interior (W x D x H, mm / inch)	400 x 360 x 365 / 15.7 x 14.2 x 14.4	480 x 410 x 465 / 18.9 x 16.1 x 18.3	610 x 460 x 485 / 24 x 18 x 19
	Exterior (W x D x H, mm / inch)	577 x 542 x 760 / 22.7 x 21.3 x 30	657 x 592 x 870 / 25.9 x 23.3 x 34.3	785 x 642 x 897 / 30.9 x 25.3 x 35.3
	Net weight (Kg / lbs)	49 / 108	59 / 130	68 / 150
Shelves	Quantity of shelves (standard/max.)	2 / 4	2 / 6	2 / 7
	Max. Load per shelf (Kg / lbs)	30 / 66.1	30 / 66.1	30 / 66.1
Electrical requirements (230V, 50 / 60Hz, A)		4.3	6	7.4
Cat. No.	Solid Door (without window)	AAH11135K	AAH11145K	AAH11155K
	Window door	AAH11235K	AAH11245K	AAH11255K
Electrical requirements (120V, 60Hz, A)		6.7	8.3	10
Cat. No.	Solid Door (without window)	AAH11136U	AAH11146U	AAH11156U
	Window door	AAH11236U	AAH11246U	AAH11256U

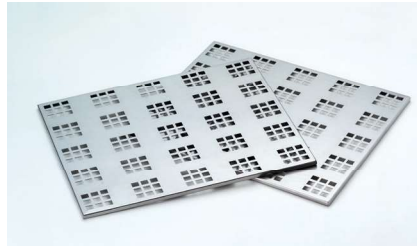
※ The lowest temperature that can be controlled depends on changes in room temperature and sample temperature. Therefore, please contact the distributor of our products before purchasing for technical consultation.
 ※ Technical data (according to DIN 12880, before 2013)

Accessories for Oven



Wire Shelf

- Excellent corrosion resistance as made of stainless steel.
- Excellent air permeability and uniform temperature distribution.



Perforated Shelf

- Porous structure made of stainless steel.
- Solid structure makes it suitable for high load samples.



LC GreenBox

- Monitor and control the operation status of the device in real time via mobile app with simple internet connection.
- One LC GreenBox can connect up to 4 devices.

Wire & Perforated shelves

Model	Wire shelves		Perforated shelves	
	Cat. No.	Quantity of shelves (standard/max.)	Cat. No.	Quantity of shelves (max.)
OF-02G / GW	00EDA0008136	2 / 4	AAA12531	7
OF-12G / GW	00EDA0008135	2 / 6	AAA12532	6
OF-22G / GW	00EDA0008134	2 / 7	AAA12533	7
OF-02P / PW	00EDA0008136	2 / 4	AAA12531	7
OF-12P / PW	00EDA0008135	2 / 6	AAA12532	6
OF-22P / PW	00EDA0008134	2 / 7	AAA12533	7
OF-01E	00EDA0008136	2 / 5	AAA14501	5
OF-11E	00EDA0008135	2 / 7	AAA14502	7
OF-21E	00EDA0008137	2 / 7	AAA14503	7
OF3-30 / 30W / 30P / 30PW	00RTD0001196	2 / 5	AAA18501	5
OF3-45 / 45W / 45P / 45PW	00RTD0001196	3 / 8	AAA18501	8
OF3-75 / 75W / 75P / 75PW	00RTD0001197	3 / 11	AAA18502	11
OF3-30H / 30HW / 30HP / 30HPW	00RTD0001196	2 / 5	AAA18501	5
OF3-45H / 45HW / 45HP / 45HPW	00RTD0001196	3 / 8	AAA18501	8
OF3-75H / 75HW / 75HP / 75HPW	00RTD0001197	3 / 11	AAA18502	11
OF-02G-2C	00EDA0008136	4 / 8	AAA12531	8
OF-02G-4C	00EDA0008136	8 / 16	AAA12531	16
ON-02G / GW	00EDA0008136	2 / 4	AAA12531	4
ON-12G / GW	00EDA0008135	2 / 6	AAA12532	6
ON-22G / GW	00EDA0008137	2 / 7	AAA12535	7
ON-01E	00EDA0008136	2 / 5	AAA12531	5
ON-11E	00EDA0008135	2 / 7	AAA12532	7
ON-21E	00EDA0008137	2 / 7	AAA12535	7

※ Included bracket for each shelf

LC GreenBox

Model	Description	Dimension (W x D x H, mm / inch)	Cat. No.
OF-P / OF-G / OF3 / OV4 / MF2	Mobile monitoring system	156 x 94 x 34 / 6.1 x 3.7 x 1.3	AAAQ1011

Recorder (Dot)

6-channel graph-type temperature recorder.
Adjustable recording range, speed, etc.

Recorder (Thermal Line)

Graph/Digital mode
Thermal-type temperature recorder

Fan speed adjuster

Adjustable inner air circulation speed, which protects spreading out powder sample.

Model	Description	Cat. No.
OF3-30/45/75/30H/45H/75H Series	Recorder (Dot)	AAA8T500
	Recorder (Thermal line)	AAAE1503

Model	Cat. No.
OF-02G, 12G, 22G	AAA12701